

## "Optima" Series Injection Molding Machines- Technical Specifications

Machine Model - <i>Optima</i>		45-110-7 STD.			45H-128-8			45H-186-10			45H-200-12			75-128-8			75-186 STD.-10			75H-200-12		
International dimensions		450H-110			450H-128			450H-186			450H-200			750H-128			750H-186			750H-200		
Injection Unit number		110			128			186			200			128			186			200		
Injection Unit		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	28	<b>31</b>	35	28	<b>31</b>	35	31	<b>35</b>	40	31	<b>35</b>	40	28	<b>31</b>	35	31	<b>35</b>	40	31	<b>35</b>	40
Screw L/D ratio	L/D	21	<b>19</b>	17	21	<b>19</b>	17	22	<b>19</b>	17	22	<b>19</b>	17	21	<b>19</b>	17	22	<b>19</b>	17	22	<b>19</b>	17
Stroke volume	cm <sup>3</sup>	68	<b>83</b>	106	68	<b>83</b>	106	102	<b>130</b>	170	102	<b>130</b>	170	68	<b>83</b>	106	102	<b>130</b>	170	102	<b>130</b>	170
Injection weight max. *	g	64	<b>79</b>	100	64	<b>79</b>	100	97	<b>123</b>	161	97	<b>123</b>	161	64	<b>79</b>	100	97	<b>123</b>	161	97	<b>123</b>	161
Injection rate #	cm <sup>3</sup> /s	45	<b>56</b>	71	53	<b>65</b>	83	56	<b>72</b>	94	69	<b>88</b>	115	53	<b>65</b>	83	56	<b>72</b>	94	70	<b>89</b>	116
Plasticizing rate #	g/s	5.2	<b>6.3</b>	8	5.3	<b>7.5</b>	9.6	6.1	<b>9</b>	9.9	7.5	<b>11.1</b>	12.2	5.3	<b>7.5</b>	9.6	6.1	<b>9</b>	9.9	7.2	<b>10.7</b>	11.8
Injection Pressure	bar	1618	<b>1320</b>	1036	1897	<b>1548</b>	1214	1826	<b>1433</b>	1097	1961	<b>1539</b>	1178	1897	<b>1548</b>	1214	1826	<b>1433</b>	1097	1961	<b>1539</b>	1178
Screw rpm	min-1	<b>152</b>			<b>177</b>			<b>154</b>			<b>190</b>			<b>177</b>			<b>154</b>			<b>190</b>		
Clamping Unit																						
Clamping force	kN	<b>450</b>			<b>450</b>			<b>450</b>			<b>450</b>			<b>750</b>			<b>750</b>			<b>750</b>		
Mold opening stroke	mm	<b>220</b>			<b>220</b>			<b>220</b>			<b>220</b>			<b>300</b>			<b>300</b>			<b>300</b>		
Dist. Bet. Tie bars, H X V	mm	<b>300x234</b>			<b>300x234</b>			<b>300x234</b>			<b>300x234</b>			<b>350x310</b>			<b>350x310</b>			<b>350x310</b>		
Mold thickness, min. - max.	mm	<b>150-300</b>			<b>150-300</b>			<b>150-300</b>			<b>150-300</b>			<b>125-310</b>			<b>125-310</b>			<b>125-310</b>		
Ejector stroke	mm	<b>50</b>			<b>50</b>			<b>50</b>			<b>50</b>			<b>65</b>			<b>65</b>			<b>65</b>		
Ejector force	kN	<b>28.5</b>			<b>33.4</b>			<b>26.5</b>			<b>28.5</b>			<b>33.4</b>			<b>26.5</b>			<b>28.5</b>		
Ejector number	pcs	<b>1</b>			<b>1</b>			<b>1</b>			<b>1</b>			<b>1</b>			<b>1</b>			<b>1</b>		
General Data																						
Pump drive	kW	<b>5.5</b>			<b>7.5</b>			<b>7.5</b>			<b>9.3</b>			<b>7.5</b>			<b>7.5</b>			<b>9.3</b>		
Installed heating capacity	kW	<b>6.46</b>			<b>6.46</b>			<b>7.65</b>			<b>7.65</b>			<b>6.46</b>			<b>7.65</b>			<b>7.65</b>		
Total Connected power	kW	<b>11.96</b>			<b>13.96</b>			<b>15.15</b>			<b>16.95</b>			<b>13.96</b>			<b>15.15</b>			<b>16.95</b>		
Oil tank capacity	L	<b>150</b>			<b>150</b>			<b>150</b>			<b>150</b>			<b>200</b>			<b>200</b>			<b>200</b>		
Machine dimensions, Lx W x H	m	<b>3.5 x 1.5 x 1.7</b>			<b>3.5 x 1.5 x 1.7</b>			<b>3.5 x 1.5 x 1.7</b>			<b>3.5 x 1.5 x 1.7</b>			<b>3.5 x 1.6 x 1.8</b>			<b>3.5 x 1.6 x 1.8</b>			<b>3.5 x 1.6 x 1.8</b>		
Net weight (without oil)	T	<b>2.8</b>			<b>2.8</b>			<b>2.8</b>			<b>2.8</b>			<b>3.7</b>			<b>3.7</b>			<b>3.7</b>		

## "Optima" Series Injection Molding Machine

Machine Model - <i>Optima</i>		75H-415-12			75H-415-14			100-200-12			100-415-12 STD.			100H-430-14			100-545-14			100-564-18		
International dimensions		750H-415			750H-415			1000H-200			1000H-415			1000H-430			1000H-545			1000H-564		
Injection Unit number		415			415			200			415			430			545			564		
Injection Unit		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	40	<b>45</b>	50	40	<b>45</b>	50	31	<b>35</b>	40	40	<b>45</b>	50	40	<b>45</b>	50	45	<b>50</b>	55	45	<b>50</b>	55
Screw L/D ratio	L/D	20	<b>18</b>	16	20	<b>18</b>	16	22	<b>19</b>	17	20	<b>18</b>	16	20	<b>18</b>	16	21	<b>19</b>	17	21	<b>19</b>	17
Stroke volume	cm <sup>3</sup>	203	<b>258</b>	318	203	<b>258</b>	318	102	<b>130</b>	170	203	<b>258</b>	318	203	<b>258</b>	318	286	<b>353</b>	427	286	<b>353</b>	427
Injection weight max. *	g	193	<b>245</b>	302	193	<b>245</b>	302	97	<b>123</b>	161	193	<b>245</b>	302	193	<b>245</b>	302	272	<b>336</b>	406	272	<b>336</b>	406
Injection rate #	cm <sup>3</sup> /s	67	<b>85</b>	105	73	<b>93</b>	115	70	<b>89</b>	116	67	<b>85</b>	105	73	<b>93</b>	115	79	<b>98</b>	118	104	<b>129</b>	156
Plasticizing rate #	g/s	11.5	<b>14.1</b>	17.4	12.6	<b>15.5</b>	19.1	7.2	<b>10.7</b>	11.8	11.5	<b>14.1</b>	17.4	12.6	<b>15.5</b>	19.1	14.1	<b>19.2</b>	23.2	18.7	<b>25.4</b>	30.7
Injection Pressure	bar	2042	<b>1613</b>	1307	2112	<b>1669</b>	1352	1961	<b>1539</b>	1178	2042	<b>1613</b>	1307	2112	<b>1669</b>	1352	1905	<b>1543</b>	1275	1970	<b>1596</b>	1319
Screw rpm	min-1	<b>162</b>			<b>178</b>			<b>190</b>			<b>162</b>			<b>178</b>			<b>160</b>			<b>212</b>		
Clamping Unit																						
Clamping force	kN	<b>750</b>			<b>750</b>			<b>1000</b>			<b>1000</b>			<b>1000</b>			<b>1000</b>			<b>1000</b>		
Mold opening stroke	mm	<b>300</b>			<b>300</b>			<b>340</b>			<b>340</b>			<b>340</b>			<b>340</b>			<b>340</b>		
Dist. Bet. Tie bars, H X V	mm	<b>350x310</b>			<b>350x310</b>			<b>410x370</b>			<b>410x370</b>			<b>410x370</b>			<b>410x370</b>			<b>410x370</b>		
Mold thickness, min. - max.	mm	<b>125-310</b>			<b>125-310</b>			<b>150-360</b>			<b>150-360</b>			<b>150-360</b>			<b>150-360</b>			<b>150-360</b>		
Ejector stroke	mm	<b>65</b>			<b>65</b>			<b>80</b>			<b>80</b>			<b>80</b>			<b>80</b>			<b>80</b>		
Ejector force	kN	<b>28.5</b>			<b>29.4</b>			<b>28.5</b>			<b>28.5</b>			<b>29.4</b>			<b>28.5</b>			<b>29.4</b>		
Ejector number	pcs	<b>1</b>			<b>1</b>			<b>5</b>			<b>5</b>			<b>5</b>			<b>5</b>			<b>5</b>		
General Data																						
Pump drive	kW	<b>9.3</b>			<b>11.0</b>			<b>9.3</b>			<b>9.3</b>			<b>11.0</b>			<b>11.0</b>			<b>15.0</b>		
Installed heating capacity	kW	<b>10.30</b>			<b>10.30</b>			<b>7.65</b>			<b>10.3</b>			<b>10.3</b>			<b>13.75</b>			<b>13.75</b>		
Total Connected power	kW	<b>19.60</b>			<b>21.30</b>			<b>16.95</b>			<b>19.60</b>			<b>21.30</b>			<b>24.75</b>			<b>28.75</b>		
Oil tank capacity	L	<b>200</b>			<b>200</b>			<b>260</b>			<b>260</b>			<b>260</b>			<b>260</b>			<b>260</b>		
Machine dimensions, Lx W x H	m	<b>3.5 x 1.6 x 1.8</b>			<b>3.5 x 1.6 x 1.8</b>			<b>4.2 x 1.7 x 1.9</b>			<b>4.2 x 1.7 x 1.9</b>			<b>4.2 x 1.7 x 1.9</b>			<b>4.2 x 1.7 x 1.9</b>			<b>4.2 x 1.7 x 1.9</b>		
Net weight (without oil)	T	<b>3.7</b>			<b>3.7</b>			<b>4.3</b>			<b>4.3</b>			<b>4.3</b>			<b>4.3</b>			<b>4.3</b>		

## "Optima" Series Injection Molding Machine

Machine Model - <i>Optima</i>		125-430-14			125-545-14 STD.			125H-564-18			125H-837-18			125H-837-24			175-564-18			175-837-18 STD.		
International dimensions		1250H-430			1250H-545			1250H-564			1250H-837			1250H-837			1750H-564			1750H-837		
Injection Unit number		430			545			564			837			837			564			837		
Injection Unit		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	40	<b>45</b>	50	45	<b>50</b>	55	45	<b>50</b>	55	50	<b>55</b>	60	50	<b>55</b>	60	45	<b>50</b>	55	50	<b>55</b>	60
Screw L/D ratio	L/D	20	<b>18</b>	16	21	<b>19</b>	17	21	<b>19</b>	17	21	<b>19</b>	17	21	<b>19</b>	17	21	<b>19</b>	17	21	<b>19</b>	17
Stroke volume	cm <sup>3</sup>	203	<b>258</b>	318	286	<b>353</b>	427	286	<b>353</b>	427	396	<b>480</b>	571	396	<b>480</b>	571	286	<b>353</b>	427	396	<b>480</b>	571
Injection weight max. *	g	193	<b>245</b>	302	272	<b>336</b>	406	272	<b>336</b>	406	377	<b>456</b>	542	377	<b>456</b>	542	272	<b>336</b>	406	377	<b>456</b>	542
Injection rate #	cm <sup>3</sup> /s	73	<b>93</b>	115	79	<b>98</b>	118	105	<b>129</b>	157	98	<b>118</b>	141	128	<b>155</b>	184	105	<b>129</b>	157	98	<b>118</b>	141
Plasticizing rate #	g/s	13.0	<b>15.9</b>	19.6	14.1	<b>19.2</b>	23.2	21.5	<b>26.6</b>	32.2	19.1	<b>26.1</b>	31.1	25.1	<b>34.4</b>	40.9	21.5	<b>26.6</b>	32.2	19.1	<b>26.1</b>	31.1
Injection Pressure	bar	2112	<b>1669</b>	1352	1905	<b>1543</b>	1275	1970	<b>1596</b>	1319	2112	<b>1745</b>	1467	2112	<b>1745</b>	1467	1970	<b>1596</b>	1319	2112	<b>1745</b>	1467
Screw rpm	min-1	<b>178</b>			<b>160</b>			<b>212</b>			<b>164</b>			<b>216</b>			<b>212</b>			<b>164</b>		
Clamping Unit																						
Clamping force	kN	<b>1250</b>			<b>1250</b>			<b>1250</b>			<b>1250</b>			<b>1250</b>			<b>1750</b>			<b>1750</b>		
Mold opening stroke	mm	<b>400</b>			<b>400</b>			<b>400</b>			<b>400</b>			<b>400</b>			<b>460</b>			<b>460</b>		
Dist. Bet. Tie bars, H X V	mm	<b>450x385</b>			<b>450x385</b>			<b>450x385</b>			<b>450x385</b>			<b>450x385</b>			<b>520x450</b>			<b>520x450</b>		
Mold thickness, min. - max.	mm	<b>160-400</b>			<b>160-400</b>			<b>160-400</b>			<b>160-400</b>			<b>160-400</b>			<b>200-480</b>			<b>200-480</b>		
Ejector stroke	mm	<b>100</b>			<b>100</b>			<b>100</b>			<b>100</b>			<b>100</b>			<b>100</b>			<b>100</b>		
Ejector force	kN	<b>46.7</b>			<b>45.2</b>			<b>46.7</b>			<b>46.7</b>			<b>46.7</b>			<b>46.7</b>			<b>46.7</b>		
Ejector number	pcs	<b>5</b>			<b>5</b>			<b>5</b>			<b>5</b>			<b>5</b>			<b>9</b>			<b>9</b>		
General Data																						
Pump drive	kW	<b>11.0</b>			<b>11.0</b>			<b>15.0</b>			<b>15.0</b>			<b>18.5</b>			<b>15.0</b>			<b>15.0</b>		
Installed heating capacity	kW	<b>10.30</b>			<b>13.75</b>			<b>13.75</b>			<b>15.90</b>			<b>15.90</b>			<b>13.75</b>			<b>15.9</b>		
Total Connected power	kW	<b>21.30</b>			<b>24.75</b>			<b>28.75</b>			<b>30.90</b>			<b>34.40</b>			<b>28.75</b>			<b>30.9</b>		
Oil tank capacity	L	<b>300</b>			<b>300</b>			<b>300</b>			<b>300</b>			<b>300</b>			<b>400</b>			<b>400</b>		
Machine dimensions, Lx W x H	m	<b>4.5 x 1.8 x 2.0</b>			<b>4.5 x 1.8 x 2.0</b>			<b>4.5 x 1.8 x 2.0</b>			<b>4.5 x 1.8 x 2.0</b>			<b>4.5 x 1.8 x 2.0</b>			<b>5.2 x 1.8 x 2.0</b>			<b>5.2 x 1.8 x 2.0</b>		
Net weight (without oil)	T	<b>5.5</b>			<b>5.5</b>			<b>5.5</b>			<b>5.5</b>			<b>5.5</b>			<b>6.6</b>			<b>6.6</b>		

"Optima" Series Injection Molding Machine													
Machine Model - <i>Optima</i>		175H-837-24			175-941-18			175-941-24			175-910-28		
International dimensions		1750H-837			1750H-941			1750H-941			1750H-910		
Injection Unit number		837			941			941			910		
Injection Unit		A	B	C	A	B	C	A	B	C	A	B	C
Screw diameter	mm	50	<b>55</b>	60	55	<b>60</b>	67	55	<b>60</b>	67	55	<b>60</b>	67
Screw L/D ratio	L/D	21	<b>19</b>	17	21	<b>19</b>	17	21	<b>19</b>	17	21	<b>19</b>	17
Stroke volume	cm <sup>3</sup>	396	<b>480</b>	571	539	<b>642</b>	800	539	<b>642</b>	800	539	<b>642</b>	800
Injection weight max. *	g	377	<b>456</b>	542	512	<b>609</b>	760	512	<b>609</b>	760	512	<b>609</b>	760
Injection rate #	cm <sup>3</sup> /s	128	<b>155</b>	184	118	<b>140</b>	174	155	<b>184</b>	230	182	<b>216</b>	269
Plasticizing rate #	g/s	25.1	<b>34.4</b>	40.9	23.3	<b>28.1</b>	33.5	30.7	<b>37.1</b>	44.2	36.0	43.6	51.9
Injection Pressure	bar	2112	<b>1745</b>	1467	1745	<b>1467</b>	1176	1745	<b>1467</b>	1176	1687	<b>1418</b>	1137
Screw rpm	min-1	<b>216</b>			<b>135</b>			<b>178</b>			<b>209</b>		
Clamping Unit													
Clamping force	kN	<b>1750</b>			<b>1750</b>			<b>1750</b>			<b>1750</b>		
Mold opening stroke	mm	<b>460</b>			<b>460</b>			<b>460</b>			<b>460</b>		
Dist. Bet. Tie bars, H X V	mm	<b>520x450</b>			<b>520x450</b>			<b>520x450</b>			<b>520x450</b>		
Mold thickness, min. - max.	mm	<b>200-480</b>			<b>200-480</b>			<b>200-480</b>			<b>200-480</b>		
Ejector stroke	mm	<b>100</b>			<b>100</b>			<b>100</b>			<b>100</b>		
Ejector force	kN	<b>46.7</b>			<b>46.7</b>			<b>46.7</b>			<b>45.2</b>		
Ejector number	pcs	<b>9</b>			<b>9</b>			<b>9</b>			<b>9</b>		
General Data													
Pump drive	kW	<b>18.5</b>			<b>15.0</b>			<b>18.5</b>			<b>22.0</b>		
Installed heating capacity	kW	<b>15.9</b>			<b>18.43</b>			<b>18.43</b>			<b>18.43</b>		
Total Connected power	kW	<b>34.4</b>			<b>33.43</b>			<b>36.93</b>			<b>40.43</b>		
Oil tank capacity	L	<b>400</b>			<b>400</b>			<b>400</b>			<b>400</b>		
Machine dimensions, Lx W x H	m	<b>5.2 x 1.8 x 2.0</b>			<b>5.2 x 1.8 x 2.0</b>			<b>5.2 x 1.8 x 2.0</b>			<b>5.2 x 1.8 x 2.0</b>		
Net weight (without oil)	T	<b>6.6</b>			<b>6.6</b>			<b>6.6</b>			<b>6.6</b>		

## "Optima" Series Injection Molding Machine

<b>Machine Model - <i>Optima</i></b>	
<b>International dimensions</b>	
<b>Injection Unit number</b>	
<b>Injection Unit</b>	
<b>Screw diameter</b>	<b>mm</b>
<b>Screw L/D ratio</b>	<b>L/D</b>
<b>Stroke volume</b>	<b>cm<sup>3</sup></b>
<b>Injection weight max. *</b>	<b>g</b>
<b>Injection rate #</b>	<b>cm<sup>3</sup>/s</b>
<b>Plasticizing rate #</b>	<b>g/s</b>
<b>Injection Pressure</b>	<b>bar</b>
<b>Screw rpm</b>	<b>min-1</b>
<b>Clamping Unit</b>	
<b>Clamping force</b>	<b>kN</b>
<b>Mold opening stroke</b>	<b>mm</b>
<b>Dist. Bet. Tie bars, H X V</b>	<b>mm</b>
<b>Mold thickness, min. - max.</b>	<b>mm</b>
<b>Ejector stroke</b>	<b>mm</b>
<b>Ejector force</b>	<b>kN</b>
<b>Ejector number</b>	<b>pcs</b>
<b>General Data</b>	
<b>Pump drive</b>	<b>kW</b>
<b>Installed heating capacity</b>	<b>kW</b>
<b>Total Connected power</b>	<b>kW</b>
<b>Oil tank capacity</b>	<b>L</b>
<b>Machine dimensions, Lx W x H</b>	<b>m</b>
<b>Net weight (without oil)</b>	<b>T</b>

## "Optima" Series Injection Molding Machine

<b>Machine Model - <i>Optima</i></b>	
<b>International dimensions</b>	
<b>Injection Unit number</b>	
<b>Injection Unit</b>	
<b>Screw diameter</b>	<b>mm</b>
<b>Screw L/D ratio</b>	<b>L/D</b>
<b>Stroke volume</b>	<b>cm<sup>3</sup></b>
<b>Injection weight max. *</b>	<b>g</b>
<b>Injection rate #</b>	<b>cm<sup>3</sup>/s</b>
<b>Plasticizing rate #</b>	<b>g/s</b>
<b>Injection Pressure</b>	<b>bar</b>
<b>Screw rpm</b>	<b>min-1</b>
<b>Clamping Unit</b>	
<b>Clamping force</b>	<b>kN</b>
<b>Mold opening stroke</b>	<b>mm</b>
<b>Dist. Bet. Tie bars, H X V</b>	<b>mm</b>
<b>Mold thickness, min. - max.</b>	<b>mm</b>
<b>Ejector stroke</b>	<b>mm</b>
<b>Ejector force</b>	<b>kN</b>
<b>Ejector number</b>	<b>pcs</b>
<b>General Data</b>	
<b>Pump drive</b>	<b>kW</b>
<b>Installed heating capacity</b>	<b>kW</b>
<b>Total Connected power</b>	<b>kW</b>
<b>Oil tank capacity</b>	<b>L</b>
<b>Machine dimensions, Lx W x H</b>	<b>m</b>
<b>Net weight (without oil)</b>	<b>T</b>

## "Optima" Series Injection Molding Machine

<b>Machine Model - <i>Optima</i></b>	
<b>International dimensions</b>	
<b>Injection Unit number</b>	
<b>Injection Unit</b>	
<b>Screw diameter</b>	<b>mm</b>
<b>Screw L/D ratio</b>	<b>L/D</b>
<b>Stroke volume</b>	<b>cm<sup>3</sup></b>
<b>Injection weight max. *</b>	<b>g</b>
<b>Injection rate #</b>	<b>cm<sup>3</sup>/s</b>
<b>Plasticizing rate #</b>	<b>g/s</b>
<b>Injection Pressure</b>	<b>bar</b>
<b>Screw rpm</b>	<b>min-1</b>
<b>Clamping Unit</b>	
<b>Clamping force</b>	<b>kN</b>
<b>Mold opening stroke</b>	<b>mm</b>
<b>Dist. Bet. Tie bars, H X V</b>	<b>mm</b>
<b>Mold thickness, min. - max.</b>	<b>mm</b>
<b>Ejector stroke</b>	<b>mm</b>
<b>Ejector force</b>	<b>kN</b>
<b>Ejector number</b>	<b>pcs</b>
<b>General Data</b>	
<b>Pump drive</b>	<b>kW</b>
<b>Installed heating capacity</b>	<b>kW</b>
<b>Total Connected power</b>	<b>kW</b>
<b>Oil tank capacity</b>	<b>L</b>
<b>Machine dimensions, Lx W x H</b>	<b>m</b>
<b>Net weight (without oil)</b>	<b>T</b>

## "Optima" Series Injection Molding Machine

<b>Machine Model - <i>Optima</i></b>	
<b>International dimensions</b>	
<b>Injection Unit number</b>	
<b>Injection Unit</b>	
<b>Screw diameter</b>	<b>mm</b>
<b>Screw L/D ratio</b>	<b>L/D</b>
<b>Stroke volume</b>	<b>cm<sup>3</sup></b>
<b>Injection weight max. *</b>	<b>g</b>
<b>Injection rate #</b>	<b>cm<sup>3</sup>/s</b>
<b>Plasticizing rate #</b>	<b>g/s</b>
<b>Injection Pressure</b>	<b>bar</b>
<b>Screw rpm</b>	<b>min-1</b>
<b>Clamping Unit</b>	
<b>Clamping force</b>	<b>kN</b>
<b>Mold opening stroke</b>	<b>mm</b>
<b>Dist. Bet. Tie bars, H X V</b>	<b>mm</b>
<b>Mold thickness, min. - max.</b>	<b>mm</b>
<b>Ejector stroke</b>	<b>mm</b>
<b>Ejector force</b>	<b>kN</b>
<b>Ejector number</b>	<b>pcs</b>
<b>General Data</b>	
<b>Pump drive</b>	<b>kW</b>
<b>Installed heating capacity</b>	<b>kW</b>
<b>Total Connected power</b>	<b>kW</b>
<b>Oil tank capacity</b>	<b>L</b>
<b>Machine dimensions, Lx W x H</b>	<b>m</b>
<b>Net weight (without oil)</b>	<b>T</b>



## "Optima" Series Injection Molding Machine

<b>Machine Model - <i>Optima</i></b>	
<b>International dimensions</b>	
<b>Injection Unit number</b>	
<b>Injection Unit</b>	
<b>Screw diameter</b>	<b>mm</b>
<b>Screw L/D ratio</b>	<b>L/D</b>
<b>Stroke volume</b>	<b>cm<sup>3</sup></b>
<b>Injection weight max. *</b>	<b>g</b>
<b>Injection rate #</b>	<b>cm<sup>3</sup>/s</b>
<b>Plasticizing rate #</b>	<b>g/s</b>
<b>Injection Pressure</b>	<b>bar</b>
<b>Screw rpm</b>	<b>min-1</b>
<b>Clamping Unit</b>	
<b>Clamping force</b>	<b>kN</b>
<b>Mold opening stroke</b>	<b>mm</b>
<b>Dist. Bet. Tie bars, H X V</b>	<b>mm</b>
<b>Mold thickness, min. - max.</b>	<b>mm</b>
<b>Ejector stroke</b>	<b>mm</b>
<b>Ejector force</b>	<b>kN</b>
<b>Ejector number</b>	<b>pcs</b>
<b>General Data</b>	
<b>Pump drive</b>	<b>kW</b>
<b>Installed heating capacity</b>	<b>kW</b>
<b>Total Connected power</b>	<b>kW</b>
<b>Oil tank capacity</b>	<b>L</b>
<b>Machine dimensions, Lx W x H</b>	<b>m</b>
<b>Net weight (without oil)</b>	<b>T</b>

## "Optima" Series Injection Molding Machine

<b>Machine Model - <i>Optima</i></b>	
<b>International dimensions</b>	
<b>Injection Unit number</b>	
<b>Injection Unit</b>	
<b>Screw diameter</b>	<b>mm</b>
<b>Screw L/D ratio</b>	<b>L/D</b>
<b>Stroke volume</b>	<b>cm<sup>3</sup></b>
<b>Injection weight max. *</b>	<b>g</b>
<b>Injection rate #</b>	<b>cm<sup>3</sup>/s</b>
<b>Plasticizing rate #</b>	<b>g/s</b>
<b>Injection Pressure</b>	<b>bar</b>
<b>Screw rpm</b>	<b>min-1</b>
<b>Clamping Unit</b>	
<b>Clamping force</b>	<b>kN</b>
<b>Mold opening stroke</b>	<b>mm</b>
<b>Dist. Bet. Tie bars, H X V</b>	<b>mm</b>
<b>Mold thickness, min. - max.</b>	<b>mm</b>
<b>Ejector stroke</b>	<b>mm</b>
<b>Ejector force</b>	<b>kN</b>
<b>Ejector number</b>	<b>pcs</b>
<b>General Data</b>	
<b>Pump drive</b>	<b>kW</b>
<b>Installed heating capacity</b>	<b>kW</b>
<b>Total Connected power</b>	<b>kW</b>
<b>Oil tank capacity</b>	<b>L</b>
<b>Machine dimensions, Lx W x H</b>	<b>m</b>
<b>Net weight (without oil)</b>	<b>T</b>

**"Optima" Series Injection Molding Machine**

<b>Machine Model - <i>Optima</i></b>	
<b>International dimensions</b>	
<b>Injection Unit number</b>	
<b>Injection Unit</b>	
<b>Screw diameter</b>	<b>mm</b>
<b>Screw L/D ratio</b>	<b>L/D</b>
<b>Stroke volume</b>	<b>cm<sup>3</sup></b>
<b>Injection weight max. *</b>	<b>g</b>
<b>Injection rate #</b>	<b>cm<sup>3</sup>/s</b>
<b>Plasticizing rate #</b>	<b>g/s</b>
<b>Injection Pressure</b>	<b>bar</b>
<b>Screw rpm</b>	<b>min-1</b>
<b>Clamping Unit</b>	
<b>Clamping force</b>	<b>kN</b>
<b>Mold opening stroke</b>	<b>mm</b>
<b>Dist. Bet. Tie bars, H X V</b>	<b>mm</b>
<b>Mold thickness, min. - max.</b>	<b>mm</b>
<b>Ejector stroke</b>	<b>mm</b>
<b>Ejector force</b>	<b>kN</b>
<b>Ejector number</b>	<b>pcs</b>
<b>General Data</b>	
<b>Pump drive</b>	<b>kW</b>
<b>Installed heating capacity</b>	<b>kW</b>
<b>Total Connected power</b>	<b>kW</b>
<b>Oil tank capacity</b>	<b>L</b>
<b>Machine dimensions, Lx W x H</b>	<b>m</b>
<b>Net weight (without oil)</b>	<b>T</b>

## "Optima" Series Injection Molding Machine

<b>Machine Model - <i>Optima</i></b>	
<b>International dimensions</b>	
<b>Injection Unit number</b>	
<b>Injection Unit</b>	
<b>Screw diameter</b>	<b>mm</b>
<b>Screw L/D ratio</b>	<b>L/D</b>
<b>Stroke volume</b>	<b>cm<sup>3</sup></b>
<b>Injection weight max. *</b>	<b>g</b>
<b>Injection rate #</b>	<b>cm<sup>3</sup>/s</b>
<b>Plasticizing rate #</b>	<b>g/s</b>
<b>Injection Pressure</b>	<b>bar</b>
<b>Screw rpm</b>	<b>min-1</b>
<b>Clamping Unit</b>	
<b>Clamping force</b>	<b>kN</b>
<b>Mold opening stroke</b>	<b>mm</b>
<b>Dist. Bet. Tie bars, H X V</b>	<b>mm</b>
<b>Mold thickness, min. - max.</b>	<b>mm</b>
<b>Ejector stroke</b>	<b>mm</b>
<b>Ejector force</b>	<b>kN</b>
<b>Ejector number</b>	<b>pcs</b>
<b>General Data</b>	
<b>Pump drive</b>	<b>kW</b>
<b>Installed heating capacity</b>	<b>kW</b>
<b>Total Connected power</b>	<b>kW</b>
<b>Oil tank capacity</b>	<b>L</b>
<b>Machine dimensions, Lx W x H</b>	<b>m</b>
<b>Net weight (without oil)</b>	<b>T</b>

## "Optima" Series Injection Molding Machine

<b>Machine Model - <i>Optima</i></b>	
<b>International dimensions</b>	
<b>Injection Unit number</b>	
<b>Injection Unit</b>	
<b>Screw diameter</b>	<b>mm</b>
<b>Screw L/D ratio</b>	<b>L/D</b>
<b>Stroke volume</b>	<b>cm<sup>3</sup></b>
<b>Injection weight max. *</b>	<b>g</b>
<b>Injection rate #</b>	<b>cm<sup>3</sup>/s</b>
<b>Plasticizing rate #</b>	<b>g/s</b>
<b>Injection Pressure</b>	<b>bar</b>
<b>Screw rpm</b>	<b>min-1</b>
<b>Clamping Unit</b>	
<b>Clamping force</b>	<b>kN</b>
<b>Mold opening stroke</b>	<b>mm</b>
<b>Dist. Bet. Tie bars, H X V</b>	<b>mm</b>
<b>Mold thickness, min. - max.</b>	<b>mm</b>
<b>Ejector stroke</b>	<b>mm</b>
<b>Ejector force</b>	<b>kN</b>
<b>Ejector number</b>	<b>pcs</b>
<b>General Data</b>	
<b>Pump drive</b>	<b>kW</b>
<b>Installed heating capacity</b>	<b>kW</b>
<b>Total Connected power</b>	<b>kW</b>
<b>Oil tank capacity</b>	<b>L</b>
<b>Machine dimensions, Lx W x H</b>	<b>m</b>
<b>Net weight (without oil)</b>	<b>T</b>

## "Optima" Series Injection Molding Machine

<b>Machine Model - <i>Optima</i></b>	
<b>International dimensions</b>	
<b>Injection Unit number</b>	
<b>Injection Unit</b>	
<b>Screw diameter</b>	<b>mm</b>
<b>Screw L/D ratio</b>	<b>L/D</b>
<b>Stroke volume</b>	<b>cm<sup>3</sup></b>
<b>Injection weight max. *</b>	<b>g</b>
<b>Injection rate #</b>	<b>cm<sup>3</sup>/s</b>
<b>Plasticizing rate #</b>	<b>g/s</b>
<b>Injection Pressure</b>	<b>bar</b>
<b>Screw rpm</b>	<b>min-1</b>
<b>Clamping Unit</b>	
<b>Clamping force</b>	<b>kN</b>
<b>Mold opening stroke</b>	<b>mm</b>
<b>Dist. Bet. Tie bars, H X V</b>	<b>mm</b>
<b>Mold thickness, min. - max.</b>	<b>mm</b>
<b>Ejector stroke</b>	<b>mm</b>
<b>Ejector force</b>	<b>kN</b>
<b>Ejector number</b>	<b>pcs</b>
<b>General Data</b>	
<b>Pump drive</b>	<b>kW</b>
<b>Installed heating capacity</b>	<b>kW</b>
<b>Total Connected power</b>	<b>kW</b>
<b>Oil tank capacity</b>	<b>L</b>
<b>Machine dimensions, Lx W x H</b>	<b>m</b>
<b>Net weight (without oil)</b>	<b>T</b>

## "Optima" Series Injection Molding Machine

<b>Machine Model - <i>Optima</i></b>	
<b>International dimensions</b>	
<b>Injection Unit number</b>	
<b>Injection Unit</b>	
<b>Screw diameter</b>	<b>mm</b>
<b>Screw L/D ratio</b>	<b>L/D</b>
<b>Stroke volume</b>	<b>cm<sup>3</sup></b>
<b>Injection weight max. *</b>	<b>g</b>
<b>Injection rate #</b>	<b>cm<sup>3</sup>/s</b>
<b>Plasticizing rate #</b>	<b>g/s</b>
<b>Injection Pressure</b>	<b>bar</b>
<b>Screw rpm</b>	<b>min-1</b>
<b>Clamping Unit</b>	
<b>Clamping force</b>	<b>kN</b>
<b>Mold opening stroke</b>	<b>mm</b>
<b>Dist. Bet. Tie bars, H X V</b>	<b>mm</b>
<b>Mold thickness, min. - max.</b>	<b>mm</b>
<b>Ejector stroke</b>	<b>mm</b>
<b>Ejector force</b>	<b>kN</b>
<b>Ejector number</b>	<b>pcs</b>
<b>General Data</b>	
<b>Pump drive</b>	<b>kW</b>
<b>Installed heating capacity</b>	<b>kW</b>
<b>Total Connected power</b>	<b>kW</b>
<b>Oil tank capacity</b>	<b>L</b>
<b>Machine dimensions, Lx W x H</b>	<b>m</b>
<b>Net weight (without oil)</b>	<b>T</b>

## "Optima" Series Injection Molding Machine

<b>Machine Model - <i>Optima</i></b>	
<b>International dimensions</b>	
<b>Injection Unit number</b>	
<b>Injection Unit</b>	
<b>Screw diameter</b>	<b>mm</b>
<b>Screw L/D ratio</b>	<b>L/D</b>
<b>Stroke volume</b>	<b>cm<sup>3</sup></b>
<b>Injection weight max. *</b>	<b>g</b>
<b>Injection rate #</b>	<b>cm<sup>3</sup>/s</b>
<b>Plasticizing rate #</b>	<b>g/s</b>
<b>Injection Pressure</b>	<b>bar</b>
<b>Screw rpm</b>	<b>min-1</b>
<b>Clamping Unit</b>	
<b>Clamping force</b>	<b>kN</b>
<b>Mold opening stroke</b>	<b>mm</b>
<b>Dist. Bet. Tie bars, H X V</b>	<b>mm</b>
<b>Mold thickness, min. - max.</b>	<b>mm</b>
<b>Ejector stroke</b>	<b>mm</b>
<b>Ejector force</b>	<b>kN</b>
<b>Ejector number</b>	<b>pcs</b>
<b>General Data</b>	
<b>Pump drive</b>	<b>kW</b>
<b>Installed heating capacity</b>	<b>kW</b>
<b>Total Connected power</b>	<b>kW</b>
<b>Oil tank capacity</b>	<b>L</b>
<b>Machine dimensions, Lx W x H</b>	<b>m</b>
<b>Net weight (without oil)</b>	<b>T</b>



## "Optima" Series Injection Molding Machine

<b>Machine Model - <i>Optima</i></b>	
<b>International dimensions</b>	
<b>Injection Unit number</b>	
<b>Injection Unit</b>	
<b>Screw diameter</b>	<b>mm</b>
<b>Screw L/D ratio</b>	<b>L/D</b>
<b>Stroke volume</b>	<b>cm<sup>3</sup></b>
<b>Injection weight max. *</b>	<b>g</b>
<b>Injection rate #</b>	<b>cm<sup>3</sup>/s</b>
<b>Plasticizing rate #</b>	<b>g/s</b>
<b>Injection Pressure</b>	<b>bar</b>
<b>Screw rpm</b>	<b>min-1</b>
<b>Clamping Unit</b>	
<b>Clamping force</b>	<b>kN</b>
<b>Mold opening stroke</b>	<b>mm</b>
<b>Dist. Bet. Tie bars, H X V</b>	<b>mm</b>
<b>Mold thickness, min. - max.</b>	<b>mm</b>
<b>Ejector stroke</b>	<b>mm</b>
<b>Ejector force</b>	<b>kN</b>
<b>Ejector number</b>	<b>pcs</b>
<b>General Data</b>	
<b>Pump drive</b>	<b>kW</b>
<b>Installed heating capacity</b>	<b>kW</b>
<b>Total Connected power</b>	<b>kW</b>
<b>Oil tank capacity</b>	<b>L</b>
<b>Machine dimensions, Lx W x H</b>	<b>m</b>
<b>Net weight (without oil)</b>	<b>T</b>

<b>"Optima" Series Injection Molding Machine</b>	
<b>Machine Model - <i>Optima</i></b>	
<b>International dimensions</b>	
<b>Injection Unit number</b>	
<b>Injection Unit</b>	
<b>Screw diameter</b>	<b>mm</b>
<b>Screw L/D ratio</b>	<b>L/D</b>
<b>Stroke volume</b>	<b>cm<sup>3</sup></b>
<b>Injection weight max. *</b>	<b>g</b>
<b>Injection rate #</b>	<b>cm<sup>3</sup>/s</b>
<b>Plasticizing rate #</b>	<b>g/s</b>
<b>Injection Pressure</b>	<b>bar</b>
<b>Screw rpm</b>	<b>min-1</b>
<b>Clamping Unit</b>	
<b>Clamping force</b>	<b>kN</b>
<b>Mold opening stroke</b>	<b>mm</b>
<b>Dist. Bet. Tie bars, H X V</b>	<b>mm</b>
<b>Mold thickness, min. - max.</b>	<b>mm</b>
<b>Ejector stroke</b>	<b>mm</b>
<b>Ejector force</b>	<b>kN</b>
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<b>Pump drive</b>	<b>kW</b>
<b>Installed heating capacity</b>	<b>kW</b>
<b>Total Connected power</b>	<b>kW</b>
<b>Oil tank capacity</b>	<b>L</b>
<b>Machine dimensions, Lx W x H</b>	<b>m</b>
<b>Net weight (without oil)</b>	<b>T</b>